Biblio Patents

11/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015060323 **Image available**
WPI Acc No: 2003-120839/200311
XRAM Acc No: C03-031396
XRPX Acc No: N03-096167
Production of vaso- occlusive **element, used for treatment of aneurysm, comprises** injection - molding polymeric **material into three-dimensional configuration**
Patent Assignee: PORTER S C (PORT-I); SCIMED LIFE SYSTEMS INC (SCIM-N)
Inventor: PORTER S C
Number of Countries: 100 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200296273	A2	20021205	WO 2002US17284	A	20020529	200311	B
US 20020193819	A1	20021219	US 2001866892	A	20010529	200311	

Priority Applications (No Type Date): US 2001866892 A 20010529
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200296273	A2	E	22	A61B-000/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 20020193819 A1 A61M-029/00

Abstract (Basic): WO 200296273 A2
NOVELTY - Production of a vaso- **occlusive** element comprises **injection - molding** a **polymeric** material into the three-dimensional (3-D) configuration.
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a vaso-**occlusive** device produced by the method of the claim.
USE - For use in the treatment of variety of maladies, such as aneurysm.
ADVANTAGE - The method enables production of **polymeric** non-coil elements, without the need for winding and/or heat-setting which may be technically difficult. The method eliminates or reduces variation of **polymeric** vaso- **occlusive** elements and is cost-effective by use of automation.
DESCRIPTION OF DRAWING(S) - The figure shows single molded vaso-**occlusive** device.
Cylindrical structure (10)
Rectangular channel (20)
pp; 22 DwgNo 1/3

Title Terms: PRODUCE; VASO; **OCCLUDE** ; ELEMENT; TREAT; ANEURYSM; COMPRISE; INJECTION; MOULD; **POLYMERISE** ; MATERIAL; THREE; DIMENSION; CONFIGURATION
Derwent Class: A32; A96; D22; P31; P34
International Patent Class (Main): **A61B-000/00** ; **A61M-029/00**
File Segment: CPI; EngPI

11/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013940955
WPI Acc No: 2001-425169/200145
XRAM Acc No: C01-128602

Neutron-activated radioactive material comprising rare earth compound, preferably thulium oxide, in matrix, e.g. of polymer , useful in medicine, e.g. for producing restenosis-preventing stents

Patent Assignee: FORSCHUNGSZENTRUM KARLSRUHE GMBH (GESL); UNIV MARTIN LUTHER HALLE-WITTENBERG (UYHA-N); ARNOLD M (ARNO-I); BRANDSCH M (BRAN-I); FLEIG W (FLEI-I); FRANK W (FRAN-I); HAUSE G (HAUS-I); KERNERT N (KERN-I); LESSKE J (LESS-I); LUCKNER M (LUCK-I); PASCHKE R (PASC-I); SCHLOSSER K (SCHL-I)
Inventor: ARNOLD M; BRANDSCH M; FLEIG W; FRANK W; HAUSE G; KERNERT N; LESSKE J; LUCKNER M; PASCHKE R; SCHLOESSER K; SCHLOSSER K

Number of Countries: 023 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200134196	A2	20010517	WO 2000EP10884	A	20001104	200145	B
DE 19953636	A1	20010523	DE 1053636	A	19991109	200145	
DE 19953637	A1	20010523	DE 1053637	A	19991109	200145	
EP 1227845	A2	20020807	EP 2000984964	A	20001104	200259	
			WO 2000EP10884	A	20001104		
US 20030012325	A1	20030116	WO 2000EP10884	A	20001104	200308	
			US 2002131504	A	20020419		
JP 2003513938	W	20030415	WO 2000EP10884	A	20001104	200328	
			JP 2001536193	A	20001104		

Bad Date

Priority Applications (No Type Date): DE 1053637 A 19991109; DE 1053636 A 19991109
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200134196	A2	G	22	A61K-041/00	
Designated States (National): CA JP US					
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR					
DE 19953636	A1			G21G-004/08	
DE 19953637	A1			A61K-051/00	
EP 1227845	A2	G		A61K-041/00	Based on patent WO 200134196
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					
US 20030012325	A1			G21G-001/00	CIP of application WO 2000EP10884
JP 2003513938	W		23	A61K-041/00	Based on patent WO 200134196

Abstract (Basic): WO 200134196 A2

NOVELTY - Thulium-containing mixture (A),comprising a matrix material (MM) in which thulium oxide is dispersed and can be rendered radioactive by neutron treatment is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for:

(1) a radioactive material (B), which comprises at least one inert rare earth metal compound (specifically thulium oxide) homogeneously or non-homogeneously dispersed in a matrix material (MM') and has been rendered radioactive by neutron treatment;and

(2) the preparation of (B) by dosed neutron irradiation.

ACTIVITY - Vasotropic; Cytostatic.

MECHANISM OF ACTION - None given.

USE - The use of (A) or (B) as a therapeutic agent in humans or animals is claimed. In particular (A) is used to form endoprosthetic stents (claimed), which can be rendered radioactive by neutron treatment (optionally after sterile packaging) and are preferably used (claimed) to allow the passage of body fluids or air through tubular

hollow organs.

(B) (which includes (A) after activation) kills and inhibits the growth of eukaryotic or prokaryotic cells on irradiation up to a radioactivity of 80 microCi/cm2 or 20000 microCi/cm2 respectively; and is specifically used

(i) in medicinal products (such as implants, endoprostheses, catheters or stents), for targeted **embolization** of malignant structures, for external use on the skin or internal use in tumor therapy, as a component of synthetic heart valves or as an insert in ocular medicine; and/or

(ii) or producing coatings which kill and inhibit the growth of prokaryotic cells (all claimed).

ADVANTAGE - (A) and (B) are easy to prepare and handle in activatable or activated form, and effectively inhibit tumor cell growth, restenosis (by inhibition of fibroblast growth) and/or bacterial growth. The matrix material keeps the radioactivity in the required location, and eliminates 'collateral damage' during medicinal use. The rare earth compounds are inert towards body fluids and tissues; in particular thulium oxide is insoluble in water and well tolerated by the body. The natural stable thulium isotope 169-Tm is converted on neutron irradiation into the unstable isotope 170-Tm, which decomposes with a half-life of ca. 4 months into the stable isotope 170-ytterbium with release of beta-radiation and a relatively small amount (ca. 2.5%) of gamma-radiation (reducing the risk of damage to healthy tissue). The amount of radiation produced can be controlled by varying the neutron treatment time; and the gamma-radiation may provide a sterilizing effect. After use the products based on (A) or (B) may be recycled and reactivated.

pp; 22 DwgNo 0/0

Title Terms: NEUTRON; ACTIVATE; RADIOACTIVE; MATERIAL; COMPRISE; RARE; EARTH; COMPOUND; PREFER; THULIUM; OXIDE; MATRIX; **POLYMER** ; USEFUL; MEDICINE; PRODUCE; PREVENT; STENT

Derwent Class: A96; B06; D22; K08; P34

International Patent Class (Main): A61K-041/00; A61K-051/00; G21G-001/00; G21G-004/08

International Patent Class (Additional): A61K-009/10; A61K-033/24; A61K-049/04; A61K-051/02; **A61M-025/00** ; **A61M-029/02** ; **A61M-036/04** ; A61N-005/00; A61N-005/10; A61P-009/08; A61P-035/00; A61P-043/00; G21G-001/06

File Segment: CPI; EngPI

11/5/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

013750402 **Image available**

WPI Acc No: 2001-234631/200124

Related WPI Acc No: 2000-182872

XRPX Acc No: N01-167793

Resilient pads for attachment to a jaw-type surgical clamp comprise opposing pads with clamping surfaces that have interdigitating protrusions extending from the pad surfaces for gripping an occluded **vessel**

Patent Assignee: FOGARTY T J (FOGA-I)

Inventor: FOGARTY T J; HOWELL T A; SUTTON D S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6206896	B1	20010327	US 98122836	A	19980727	200124	B
			US 99361750	A	19990727		

Priority Applications (No Type Date): US 99361750 A 19990727; US 98122836 A 19980727

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6206896	B1		15	A61B-017/08	CIP of application US 98122836 CIP of patent US 6099539

Abstract (Basic): US 6206896 B1

NOVELTY - Each pad (31,32) is secured to a rigid base (34), e.g. stainless steel, attached by tabs (35) secured in clamp jaw recesses. Each pad is an integral construction configured so that the protrusions (30) of one pad extend into spaces between counterpart protrusions on the other pad when the pads are moved together. Pad resiliency is adjusted by including through holes (39) extending across the pad between the base and protrusions, or holes open at one side of the pad.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of manufacturing a resilient pad for attachment to a jaw-type surgical clamp.

USE - For **occluding** blood vessels or other tubular structures of a patient's body during surgery.

ADVANTAGE - Vessels or tissue engaged between the pads is forced under clamping pressure to wind around the protrusions and into the interdigital spaces, thereby increasing the traction and gripping force. The through holes or side holes can be configured so that the pad is stiffer towards the ends but deflects along the center portion, thereby restraining slipping. The pad resiliency imparts a cushioning effect to minimize trauma or damage to the clamped vessel or tissue.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of a pair of resilient pads according to an embodiment of the invention.

Protrusions (30)
Pads (31,32)
Rigid base (34)
Tabs (35)
Through holes. (39)
pp; 15 DwgNo 3/26

Title Terms: RESILIENT; PAD; ATTACH; JAW; TYPE; SURGICAL; CLAMP; COMPRISE; OPPOSED; PAD; CLAMP; SURFACE; INTERDIGITATED; PROTRUDE; EXTEND; PAD; SURFACE; GRIP; **OCCLUDE** ; VESSEL

Derwent Class: P31

International Patent Class (Main): **A61B-017/08**

File Segment: EngPI

```
Set      Items   Description
S1       18093   OCCLUS? OR OCCLUD? OR VASOOCCLUS? OR VASOOCCLUD?
S2       99944   INJECTION(2N)(MOLD???? OR MOULD????)
S3     1445448   POLYMER??
S4          27   S1 AND S2 AND S3
S5           2   S4 AND IC=(A61M OR A61B)
S6          25   S4 NOT S5
S7       20770   EMBOL? OR S1
S8          28   S7 AND S2 AND S3
S9           3   S8 AND IC=(A61M OR A61B)
S10          3   IDPAT (sorted in duplicate/non-duplicate order)
S11          3   IDPAT (primary/non-duplicate records only)
? show files
File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200330
         (c) 2003  Thomson Derwent
File 371:French Patents 1961-2002/BOPI 200209
         (c) 2002 INPI.  All rts. reserv.
```

Inventor Search

6/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015060323 **Image available**
WPI Acc No: 2003-120839/200311
XRAM Acc No: C03-031396
XRPX Acc No: N03-096167

Production of vaso- occlusive element, used for treatment of aneurysm, comprises injection-molding polymeric material into three-dimensional configuration

the patent

Patent Assignee: PORTER S C (PORT-I); SCIMED LIFE SYSTEMS INC (SCIM-N)
Inventor: **PORTER S C**
Number of Countries: 100 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200296273	A2	20021205	WO 2002US17284	A	20020529	200311	B
US 20020193819	A1	20021219	US 2001866892	A	20010529	200311	

Priority Applications (No Type Date): US 2001866892 A 20010529
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200296273	A2	E	22	A61B-000/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 20020193819 A1 A61M-029/00

Abstract (Basic): WO 200296273 A2

NOVELTY - Production of a vaso- **occlusive** element comprises injection-molding a polymeric material into the three-dimensional (3-D) configuration.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a vaso-**occlusive** device produced by the method of the claim.

USE - For use in the treatment of variety of maladies, such as aneurysm.

ADVANTAGE - The method enables production of polymeric non-coil elements, without the need for winding and/or heat-setting which may be technically difficult. The method eliminates or reduces variation of polymeric vaso- **occlusive** elements and is cost-effective by use of automation.

DESCRIPTION OF DRAWING(S) - The figure shows single molded vaso-**occlusive** device.

Cylindrical structure (10)
Rectangular channel (20)
pp; 22 DwgNo 1/3

Title Terms: PRODUCE; VASO; **OCCLUDE** ; ELEMENT; TREAT; ANEURYSM; COMPRISE; INJECTION; MOULD; POLYMERISE; MATERIAL; THREE; DIMENSION; CONFIGURATION
Derwent Class: A32; A96; D22; P31; P34
International Patent Class (Main): A61B-000/00; A61M-029/00
File Segment: CPI; EngPI

6/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015050160 **Image available**
WPI Acc No: 2003-110676/200310
XRAM Acc No: C03-028339
XRPX Acc No: N03-087997

Vaso- occlusive assembly, useful as an implant, comprises an implantable device with an axial lumen and liquid agent infused into lumen which is self-polymerized or polymerized with additional agents disposed in lumen

Patent Assignee: PORTER S C (PORT-I); WALLACE M P (WALL-I); SCIMED LIFE SYSTEMS INC (SCIM-N)
Inventor: **PORTER S C** ; WALLACE M P; PORTER C
Number of Countries: 097 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020143348	A1	20021003	US 2001822918	A	20010330	200310	B
WO 200296496	A1	20021205	WO 2002US9349	A	20020327	200310	

Priority Applications (No Type Date): US 2001822918 A 20010330
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020143348	A1		8	A61M-029/00	
WO 200296496	A1	E		A61M-029/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

Abstract (Basic): US 20020143348 A1

NOVELTY - A vaso- **occlusive** assembly, comprises an implantable device with an axial lumen and a liquid agent which is infused into the lumen of the implantable device. After infusion, the liquid agent is self-polymerized into a rigid or semi-rigid state, or polymerized upon interaction with one or more additional agents disposed in the lumen of the implantable device.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method of **occluding** a body cavity.

USE - As implants for delivering liquid embolic material or bio active material to treat aneurysms.

ADVANTAGE - The method improves the healing of aneurysms and provides the ability to modify the **occlusion** properties of a vaso-**occlusive** device in situ. The method reduces the risk of coil compaction. The assembly provides a specified concentration of bio active materials for long periods of time and is harmless to the subject.

DESCRIPTION OF DRAWING(S) - The figure shows the vaso- **occlusive** assembly.

pp; 8 DwgNo 1/3

Title Terms: VASO; **OCCLUDE** ; ASSEMBLE; USEFUL; IMPLANT; COMPRISE; IMPLANT; DEVICE; AXIS; LUMEN; LIQUID; AGENT; INFUSION; LUMEN; SELF; POLYMERISE; POLYMERISE; ADD; AGENT; DISPOSABLE; LUMEN
Derwent Class: A96; D22; P34
International Patent Class (Main): A61M-029/00

File Segment: CPI; EngPI

6/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014860728 **Image available**
WPI Acc No: 2002-681434/200273
XRAM Acc No: C02-192273
XRPX Acc No: N02-537875

Occlusion **balloon for use in catheter for aneurysm treatment, formed of biocompatible elastic material and having walls porous to inflating fluid, inflates to preset dimension, at preset differential pressure**

Patent Assignee: CHAN H Q (CHAN-I); CHIEN T Y (CHIE-I); PORTER S C (PORT-I); SCIMED LIFE SYSTEMS INC (SCIM-N)
Inventor: CHAN H Q; CHIEN T Y; **PORTER S C**
Number of Countries: 098 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020082638	A1	20020627	US 2000748972	A	20001227	200273	B
WO 200251320	A2	20020704	WO 2001US49841	A	20011221	200273	
US 6547804	B2	20030415	US 2000748972	A	20001227	200329	

Priority Applications (No Type Date): US 2000748972 A 20001227
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020082638	A1		10	A61M-025/12	
WO 200251320	A2	E		A61B-017/12	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 6547804	B2			A61M-029/02	

Abstract (Basic): US 20020082638 A1

NOVELTY - An **occlusion** balloon (10) of biocompatible elastic material has walls which are porous to an aqueous inflation fluid. The balloon inflates to a dimension of at least 150% beyond nominal diameter, at a differential pressure of not more than 70.0 kPa above vascular pressure.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) catheter assembly (12) comprising the balloon; and

(2) method for **occluding** a vascular site.

USE - In catheter assembly for **occluding** vascular site in aneurysm treatment.

ADVANTAGE - Since the balloon wall is sufficiently distensible, and pressure of expansion is sufficiently low, the aneurysm wall will not be distorted when the balloon contracts, instead the balloon conforms itself to the aneurysm morphology.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-sectional view of a catheter/balloon assembly threaded over a guide wire.

Balloon (10)

Catheter (12)

pp; 10 DwgNo 1A/6
Title Terms: **OCCLUDE** ; BALLOON; CATHETER; ANEURYSM; TREAT; FORMING; BIOCOMPATIBLE; ELASTIC; MATERIAL; WALL; POROUS; INFLATE; FLUID; INFLATE; PRESET; DIMENSION; PRESET; DIFFERENTIAL; PRESSURE
Derwent Class: A96; B07; D22; P34
International Patent Class (Main): A61B-017/12; A61M-025/12; A61M-029/02
File Segment: CPI; EngPI

6/5/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01562674
OCCLUSION **DEVICE**
PATENT ASSIGNEE:
Scimed Life Systems, Inc., (952162), One Scimed Place, Maple Grove, Minnesota 55311-1566, (US), (Applicant designated States: all)
INVENTOR:
TEOH, Clifford, 1723 Juarez Avenue, Los Altos, CA 94024, (US)
EDER, Joseph, C., 23423 Toyonta Road, Los Altos Hills, CA 94024, (US)
WALLACE, Michael, P., 43389 Jerome Avenue, Fremont, CA 94539, (US)
PORTER, Stephen, C. , 247 Felicio Common, Fremont, CA 94536, (US)
BARRY, David, C., 37628 Canterburry Street, Fremont, CA 94536, (US
PATENT (CC, No, Kind, Date): WO 2003011151 030213
APPLICATION (CC, No, Date): EP 2002761164 020724; WO 2002US23529 020724
PRIORITY (CC, No, Date): US 918991 010731
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: A61B-017/12
CITED PATENTS (WO A): EP 1031324 A ; US 6074382 A ; WO 62700 A ; US 5836872 A
LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 030402 A1 International application. (Art. 158(1))
Application: 030402 A1 International application entering European phase
LANGUAGE (Publication,Procedural,Application): English; English; English

6/5/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01537280
INJECTION MOLDED VASO- OCCLUSIVE **ELEMENTS**
Scimed Life Systems, Inc., (952162), One Scimed Place, Maple Grove, Minnesota 55311-1566, (US), (Applicant designated States: all)
INVENTOR:
PORTER, Stephen, Christopher , 247 Felicia Common, Fremont, CA 94536, (US
PATENT (CC, No, Kind, Date): WO 2002096273 021205
APPLICATION (CC, No, Date): EP 2002746465 020529; WO 2002US17284 020529
PRIORITY (CC, No, Date): US 866892 010529
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;

the Patent

LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: A61B-001/00
LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 030129 A2 International application. (Art. 158(1))
Application: 030129 A2 International application entering European phase
LANGUAGE (Publication,Procedural,Application): English; English; English

6/5/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01502288
tELECTIVELY PERMEABLE, HIGHLY DISTENSIBLE OCCLUSION **BALLOON**
PATENT ASSIGNEE:
Scimed Life Systems, Inc., (952162), One Scimed Place, Maple Grove, Minnesota 55311-1566, (US), (Applicant designated States: all)
INVENTOR:
PORTER, Stephen Christopher, , 247 Felicio Common, Fremont, CA 94536, (US)
CHIEN, Thomas Yung-Hui,, 2653 Ramsdell Place, San Jose, CA 95122, (US)
CHAN, Huey Qyoc,, 2297 Warfield Way Apt. D, San Jose, CA 95122, (US
PATENT (CC, No, Kind, Date): WO 2002051320 020704
APPLICATION (CC, No, Date): EP 2001991496 011221; WO 2001US49841 011221
PRIORITY (CC, No, Date): US 748972 001227
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: A61B-017/12
LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 021120 A2 International application. (Art. 158(1))
Application: 021120 A2 International application entering European phase
LANGUAGE (Publication,Procedural,Application): English; English; English

6/5/7 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00987939
EMBOLIC COMPOSITIONS WITH NON-CYANOACRYLATE RHEOLOGY MODIFYING AGENTS
Patent Applicant/Assignee:
SCIMED LIFE SYSTEMS INC, One Scimed Place, Maple Grove, MN 55311, US, US (Residence), US (Nationality)
Inventor(s):
PORTER Stephen , 247 Felicio Common, Fremont, CA 94536, US
Legal Representative:
HOPKINS Mark H (agent), Marshall, Gerstein & Borun, 6300 Sears Tower, 233 South Wacker Drive, Chicago, IL 60606, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200316364 A1 20030227 (WO 0316364)
Application: WO 2002US21532 20020709 (PCT/WO US0221532)
Priority Application: US 2001933316 20010820

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: C08F-022/32
International Patent Class: A61K-032/00
Publication Language: English
Filing Language: English

English Abstract
Compositions for embolization are disclosed herein. The compositions disclosed can have a matrix-forming component, a solid-aggregate material, and a rheology modifying agent, wherein the matrix-forming component includes at least alkyl cyanoacrylate nomomers, a stabilizer, and a plasticizer, and the solid-aggregate material includes at least a radiopacifier. The composition and a method of administering the composition are useful for treating vasculature abnormalities, particularly when the composition solidifies upon contact with an ionic environment, such as blood.

Legal Status (Type, Date, Text)
Publication 20030227 A1 With international search report.

6/5/8 (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00981559 **Image available**
OCCLUSION **DEVICE**
Patent Applicant/Assignee:
SCIMED LIFE SYSTEMS INC, One Scimed Place, Maple Grove, MN 55311-1566, US , US (Residence), US (Nationality)
Inventor(s):
TEOH Clifford, 1723 Juarez Avenue, Los Altos, CA 94024, US,
EDER Joseph C, 23423 Toyonta Road, Los Altos Hills, CA 94024, US,
WALLACE Michael P, 43389 Jerome Avenue, Fremont, CA 94539, US,
PORTER Stephen C , 247 Felicio Common, Fremont, CA 94536, US,
BARRY David C, 37628 Canterburry Street, Fremont, CA 94536, US
Legal Representative:
KELLY Joseph R (agent), Westman, Champlin & Kelly, P.A., International Centre, Suite 1600, 900 Second Avenue South, Minneapolis, MN 55402-3319 (et al), US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200311151 A1 20030213 (WO 0311151)
Application: WO 2002US23529 20020724 (PCT/WO US0223529)
Priority Application: US 2001918991 20010731
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD
SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: A61B-017/12
Publication Language: English
Filing Language: English

English Abstract
The present invention is an aneurysm treatment device (10, 30, 50, 60, 70, 80, 90, 100, 200, 250) for treating aneurysms of various shapes and sizes.

Legal Status (Type, Date, Text)
Publication 20030213 A1 With international search report.
Publication 20030213 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

6/5/9 (Item 9 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00919364 **Image available**
APPARATUS AND METHOD FOR EMBOLIZING AN ANEURYSM WITH MAGNETICALLY-CONTROLLABLE SUBSTANCE
Patent Applicant/Assignee:
SCIMED LIFE SYSTEMS INC, One Scimed Place, Maple Grove, MN 55311-1566, US , US (Residence), US (Nationality)
Inventor(s):
CROSS III DeWitte T, 8 Southmoor Drive, Clayton, MO 63105, US,
PORTER Stephen C , 247 Felicio Common, Fremont, CA 94536, US
Legal Representative:
LYON & LYON LLP (agent), BURSE, David T., 633 West Fifth Street, Suite 4700, Los Angeles, CA 90071-2066, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200253043 A1 20020711 (WO 0253043)
Application: WO 2001US50864 20011226 (PCT/WO US0150864)
Priority Application: US 2000752749 20001228
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: A61B-017/12
Publication Language: English
Filing Language: English

English Abstract
The present invention involves a magnetic detachable embolization apparatus and method for embolizing an aneurysm of a blood vessel. The apparatus includes an element adapted to be detachably connected to a distal portion of a catheter for insertion within an aneurysm of a blood vessel, the element being shaped to be retained within the aneurysm, and one or more magnets carried by the element to internally induce a

magnetic field from within the aneurysm to control a magnetic field controllable embolic to embolize the aneurysm. The method includes providing a magnetic-field controllable embolic within or adjacent to an aneurysm in a blood vessel, and internally inducing a magnetic field from within the aneurysm to control the magnetic-field controllable embolic to embolize the aneurysm.

Legal Status (Type, Date, Text)

Publication	20020711	A1 With international search report.
Publication	20020711	A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
Examination	20030206	Request for preliminary examination prior to end of 19th month from priority date

```
Set     Items   Description
S1         46   E3,E5
S2         10   AU='PORTER STEPHEN':AU='PORTER STEPHEN CHRISTOPHER'
S3         56   S1:S2
S4         11   S3 AND (OCCLUS? OR OCCLUD?)
S5         11   IDPAT (sorted in duplicate/non-duplicate order)
S6          9   IDPAT (primary/non-duplicate records only)
? show files
File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)
         (c) 2003 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2003/Apr W04
         (c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030508,UT=20030501
         (c) 2003 WIPO/Univentio
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200330
         (c) 2003  Thomson Derwent
File 371:French Patents 1961-2002/BOPI 200209
         (c) 2002 INPI.  All rts. reserv.
```

FT Patents

10/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01376954
Pedicle occlusion device
PATENT ASSIGNEE:
Medtronic AVE, Inc., (2716980), 3576 Unocal Place, Santa Rosa, California 95403, (US), (Applicant designated States: all)
INVENTOR:
Williams, Michael S., 5926 Del Rey Court, Santa Rosa, CA 95409, (US)
LEGAL REPRESENTATIVE:
Hughes, Andrea Michelle (75891), Frank B. Dehn & Co., European Patent Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)
PATENT (CC, No, Kind, Date): EP 1169969 A1 020109 (Basic)
APPLICATION (CC, No, Date): EP 2001115833 010628;
PRIORITY (CC, No, Date): US 610318 000705
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **A61B-017/12**

ABSTRACT EP 1169969 A1
A device (10) for occluding fluid flow through a lumen, especially a small diameter blood vessel, is provided comprising a delivery configuration and a treatment configuration. Fluid flow through the lumen transforms the device from the delivery configuration to the treatment configuration. The device may comprise at least one filamentary strand (16), and may further comprise a body portion (12) attached to the at least on filamentary strand which may be rendered radiopaque.
ABSTRACT WORD COUNT: 74
NOTE: Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 020109 A1 Published application with search report
LANGUAGE (Publication,Procedural,Application): English; English; English

...SPECIFICATION relatively easy to manufacture.
The device according to the present invention is a device for **occluding** fluid flow through a lumen, said device comprising: a delivery configuration and a treatment configuration...

...portion attached to the tail-like structure. The body portion may be comprised of a **polymer** or metal, and may be **molded** or **injection molded** in conjunction with the tail-like portion, or the tail-like portion may be dipped into a **polymeric** matrix, such that the strands or fibers are encapsulated by the body portion. The body...

10/5,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00582564
RETRACTABLE-WIRE CATHETER DEVICE
PATENT ASSIGNEE:
MARKS, Michael P., (1590640), 4216 Bettina Avenue, San Mateo, CA 94403,

(US), (applicant designated states:
AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;MC;NL;SE)
INVENTOR:
MARKS, Michael P., 4216 Bettina Avenue, San Mateo, CA 94403, (US)
LEGAL REPRESENTATIVE:
VOSSIUS & PARTNER (100311), Postfach 86 07 67, 81634 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 587782 A1 940323 (Basic)
EP 587782 A1 940713
EP 587782 B1 990421
WO 9221400 921210
APPLICATION (CC, No, Date): EP 92913722 920605; WO 92US4661 920605
PRIORITY (CC, No, Date): US 712191 910607
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; MC; NL; SE
INTERNATIONAL PATENT CLASS: **A61M-029/00**
CITED PATENTS (EP A): FR 2645028 A; FR 2645028 A; US 4994069 A; WO 8300997 A; US 4710192 A; FR 2641692 A; EP 341039 A; EP 375775 A; EP 350043 A
CITED REFERENCES (EP A):
NASA TECHNICAL BRIEFS August 1990 page 74 E.R. COLLINS,JR. 'IMPLANTABLE ELECTRODE FOR CRITICAL LOCATIONS';
NOTE: No A-document published by EPO
LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse:	000607 B1	Date of lapse of European Patent in a contracting state (Country, date): BE 19990421,
Oppn None:	20000412 B1	No opposition filed: 20000122
Lapse:	030502 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421, CH 19990421, LI 19990421, ES 19990421, GR 19990421, MC 19991231, NL 19990421, SE 19990421,
Lapse:	030212 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421, CH 19990421, LI 19990421, ES 19990421, GR 19990421, MC 19991231, NL 19990421, SE 19990421,
Lapse:	020605 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421, CH 19990421, LI 19990421, GR 19990421, MC 19991231, SE 19990421,
Lapse:	001227 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421, CH 19990421, LI 19990421, MC 19991231,
Lapse:	000621 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421, MC 19991231,
Lapse:	000614 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421,
Lapse:	001213 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421, CH 19990726, LI 19990726, MC 19991231,
Lapse:	010606 B1	Date of lapse of European Patent in a contracting state (Country, date): AT

19990421, BE 19990421, CH 19990421, LI 19990421, GR 19990421, MC 19991231,

Lapse: 020619 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421, CH 19990421, LI 19990421, ES 19990421, GR 19990421, MC 19991231, SE 19990421,

Lapse: 030423 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 19990421, BE 19990421, CH 19990421, LI 19990421, ES 19990421, GR 19990421, MC 19990630, NL 19990421, SE 19990421,

Application: 940323 A1 Published application (A1with Search Report ;A2without Search Report)

Examination: 940323 A1 Date of filing of request for examination: 940105

Search Report: 940713 A1 Drawing up of a supplementary European search report: 940530

Examination: 960103 A1 Date of despatch of first examination report: 951120

Change: 980708 A1 Title of invention (German) (change)

Change: 980708 A1 Title of invention (English) (change)

Change: 980708 A1 Title of invention (French) (change)

Change: 980715 A1 Title of invention (German) (change)

Change: 980715 A1 Title of invention (English) (change)

Change: 980715 A1 Title of invention (French) (change)

Grant: 990421 B1 Granted patent

LANGUAGE (Publication,Procedural,Application): English; English; English

...SPECIFICATION into a vessel at the vaso-occlusion site.
Alternatively, the extendable portion of the vaso- **occlusion** wire may be formed from a flexible, preshaped **polymer** tube or rod. The convoluted shape of the wire may be achieved by a combination...

...heat treatment, or by shaping the wire as it is extruded, before cooling, or by **injection molding** . Suitable **polymers** for use in preparing this type of wire include any biocompatible **polymer** such as polyethylene, polyurethane, polypropylene, and the like, which are capable (by their inherent memory...

10/5,K/3 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

00992056

CONDUITS HAVING DISTAL CAGE STRUCTURE FOR MAINTAINING COLLATERAL CHANNELS IN TISSUE AND RELATED METHODS

Patent Applicant/Assignee:

BRONCUS TECHNOLOGIES INC, Building A, Suite 8, 1400 N. Shoreline Blvd, Mountain View, CA 94043, US, US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

COOPER Joel D, 2708 Turnberry Park Lane, St. Louis, MO 63131, US, US (Residence), US (Nationality), (Designated only for: US)

KEAST Thomas, 860 Park Drive #3, Mountain View, CA 94040, US, US (Residence), US (Nationality), (Designated only for: US)

LOOMAS Bryan, 265 Snow Crest Road, Los Gatos, CA 95033, US, US (Residence), US (Nationality), (Designated only for: US)
ROSCHAK Ed, 26262 Verona Place, Mission Viejo, CA 92692, US, US (Residence), US (Nationality), (Designated only for: US)
KAPLAN Gary, 111 Caselli Avenue, San Francisco, CA 94114, US, US (Residence), US (Nationality), (Designated only for: US)
SAENZ Sandra, 786 Hope Street, #3, Mountain View, CA 94041, US, US (Residence), US (Nationality), (Designated only for: US)
COLLINSON Mike, 230 Winchester Drive, Goleta, CA 93117, US, US (Residence), US (Nationality), (Designated only for: US)
REDMOND Russ, 1148 North Fairview Avenue, Goleta, CA 93117, US, US (Residence), US (Nationality), (Designated only for: US)
VIDAL Claude, 5426 San Patricio Drive, Santa Barbara, CA 93111, US, US (Residence), US (Nationality), (Designated only for: US)
CHANDOS David, 4213 Sirius Avenue, Lompoc, CA 93436, US, US (Residence), US (Nationality), (Designated only for: US)
BIGGS Michael, 639 Azevedo Court, Santa Clara, CA 95051, US, US (Residence), US (Nationality), (Designated only for: US)
KARABEY Halil, 4515 Grimsby Drive, San Jose, CA 95130, US, US (Residence), US (Nationality), (Designated only for: US)
TANAKA Don, 18774 Devon Avenue, Saratoga, CA 95070, US, US (Residence), US (Nationality), (Designated only for: US)
THOMPSON David, 793 Almondwood Way, San Jose, CA 95120, US, US (Residence), US (Nationality), (Designated only for: US)

Legal Representative:
BATT Richard R (et al) (agent), Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA 94304-1018, US,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200320338 A2 20030313 (WO 0320338)
Application: WO 2002US28237 20020904 (PCT/WO US0228237)
Priority Application: US 2001317338 20010904; US 2001947144 20010904; US 2001334642 20011129; US 2002367436 20020320; US 2002374022 20020419; US 2002387163 20020607

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **A61M**
Publication Language: English
Filing Language: English

English Abstract

Devices and related methods are directed to altering gaseous flow within a lung to improve the expiration cycle of, for instance, an individual having Chronic Obstructive Pulmonary Disease. More particularly, conduits maintain collateral openings or channels through the airway wall so that air is able to pass directly out of the lung tissue to facilitate both the exchange of oxygen ultimately into the blood and/or to decompress hyper-inflated lungs. The conduits include a center section with a passageway extending through the center section. The conduits further include a distal cage structure which has a passageway and at least one opening in fluid communication with the center section passageway. The medical kits disclosed herein are also directed to maintain collateral

openings through airway walls.

Legal Status (Type, Date, Text)
Publication 20030313 A2 Without international search report and to be republished upon receipt of that report.

Claim
... which is impermeable to tissue. This aspect of the invention prevents tissue in-growth from **occluding** the collateral channel or ...conduit 200 having a tissue barrier 240. The tissue barrier 240 prevents tissue ingrowth from **occluding** the collateral channel or passage of the conduit 200. The tissue barrier 240 may coaxially...01431 The tissue barrier may be formed from a material, or coating that is a **polymer** or an elastomer such as, for example, silicone, polyurethane, PET, PTFE, ... coatings may be applied, for example, by either dip coating, molding, spincoating, transfer molding, compression **molding** or liquid **injection molding** . Or, the tissue barrier may be a tube of a material and the tube is...

10/5,K/4 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00962595 **Image available**
INJECTION MOLDED VASO-OCCLUSIVE ELEMENTS
Patent Applicant/Assignee:
SCIMED LIFE SYSTEMS INC, One Scimed Place, Maple Grove, MN 55311-1566, US , US (Residence), US (Nationality)
Inventor(s):
PORTER Stephen Christopher, 247 Felicia Common, Fremont, CA 94536, US,
Legal Representative:
PASTERNAK Dahna S (agent), Robins & Pasternak LLP, Suite 180, 545 Middlefield Road, Menlo Park, CA 94025 (et al), US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200296273 A2 20021205 (WO 0296273)
Application: WO 2002US17284 20020529 (PCT/WO US0217284)
Priority Application: US 2001866892 20010529
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: **A61B**
Publication Language: English
Filing Language: English

English Abstract
Compositions comprising injection-molded vaso-occlusive elements are described. Also described are methods of making and using these elements.

Legal Status (Type, Date, Text)
Publication 20021205 A2 Without international search report and to be republished upon receipt of that report.

10/5,K/5 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00961183 **Image available**
HIGH PRESSURE PUMPING CARTRIDGES FOR MEDICAL AND SURGICAL PUMPING AND INFUSION APPLICATIONS

Patent Applicant/Assignee:
HYDROCISION INC, 100 Burtt Road, Suite G01, Andover, MA 01810, US, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
MOUTAFIS Timothy E, 4 Tucker Street, Gloucester, MA 01930, US, US (Residence), US (Nationality), (Designated only for: US)
FISCHER David M, 126 Candlewood Drive, Waltham, MA 02451, US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
POMIANEK Michael J (agent), Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210, US,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200295234 A1 20021128 (WO 0295234)
Application: WO 2002US13608 20020429 (PCT/WO US0213608)
Priority Application: US 2001287219 20010427
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: F04B-053/14
International Patent Class: F04B-053/12; **A61B-017/32**
Publication Language: English
Filing Language: English

English Abstract
Pumping cartridges includes a series of pumping cartridges compr ising cylinders and pistons constructed and arranged for sliding or reciprocating motion within the cylinders. The pistons and/or cylinders can comprise a sealing component including a circumferential, flared sealing flange and can be configured to enable the pumping cartridge to generate high liquid pumping pressures, for example above 1,000 psig. Some pumping cartridges disclosed include pistons including or at least partially forming a valve and/or pistons that are relatively movable with respect to a piston rod to which they are connected. In some of the disclosed valves, the movable sealing element is concave in shape, and can be curved, to create a mechanical advantage for improved sealing performance. Methods for manufacturing axially-configured pumping cartridges from thin-walled tubing are also disclosed.

Legal Status (Type, Date, Text)
Publication 20021128 A1 With international search report.
Publication 20021128 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Detailed Description

... provided according to the invention, in preferred embodiments, the sealing element is formed of a **polymeric** material, preferably by **injection molding** . In particularly preferred embodiments, the **polymeric** material is non-elastomeric. In some preferred embodiments, the material can comprise the ...which the piston and/or piston/cylinder sealing components of the pumping cartridge are formed. **Occluding** surface 200 of sealing element 188 is preferably configured to include a fluid-impermeable circumferential...fluid-impermeable circumferential flange 202, are integrally formed as a single element, for example by **injection molding** of **polymeric** material.

Claim
... in claim 152, wherein the sealing component and the main body of the piston are **injection molded** as one piece. 154. The pumping cartridge as in claim 135, wherein the flared sealing...cartridge, wherein the sealing flange portion of the piston is constructed of a non-elastomeric **polymeric** material, the sealing flange portion of the piston has a maximum outer diameter large enough...cartridge, wherein the sealing flange portion of the piston is constructed of a non-elastomeric **polymeric** material, the sealing flange portion of the piston has a maximum outer diameter large enough...cylinder, where the sealing flange portion of the piston is constructed of a non-elastomeric **polymeric** material having a tensile strength of between about 5,000 psi and about 50,000...190, wherein the sealing flange portion of the piston is constructed of a non-elastorneric **polymeric** material selected from the group consisting of. nylon-6,6 and DELRIN TM (polyoxymethylene). 192...

10/5,K/6 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00469121 **Image available**
METHOD AND APPARATUS FOR THE SURGICAL REPAIR OF ANEURYSMS
Patent Applicant/Assignee:
EVA CORPORATION,
TANNER Howard,
TROUT Hugh III,
EHMSEN Ronald,
Inventor(s):
TANNER Howard,
TROUT Hugh III,
EHMSEN Ronald,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9900055 A2 19990107
Application: WO 98US13115 19980629 (PCT/WO US9813115)
Priority Application: US 9751209 19970630; US 97896415 19970718; US 97958524 19971027
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US US US UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: **A61B-008/12**
International Patent Class: A61F-002/06; **A61M-025/00** ; **A61M-029/00**
Publication Language: English

English Abstract

An attachment assembly, and repair graft are disclosed for securing a graft (3) to repair a vessel (1) having an aneurysm therein. The attachment assembly comprises an attachment cuff (12) such that the graft is not dimensionally dependent upon the size of the vessel. A visualization apparatus (6) is also disclosed for real time direct viewing of an interior of a vessel. A penetration apparatus (7) is disclosed for use in forming treatment specific holes in a potentially calcified vessel wall which facilitates thereafter the securing of the graft, and attachment assembly to the vessel wall. An introducer sheath device (900) is also disclosed that comprises a sealing assembly (930) for preventing the loss of blood from the vessel during the insertion, and subsequent removal of surgical components during the surgical procedure.

Claim

... the above described snap and permanent fittings. The visualization tip 340 may be formed by **injection molding** or other suitable manufacturing methods in silicone or similar **polymer** . The visualization tip 340 comprises apertures 341, 342, 343, 344, and 345 that correspond to...insertion means. The housing 410 is preferably formed from an extrusion of silicone, Teflong, or **polymer** having similar properties. Housing 410 comprises a plurality of passageways 411, 412, 413, and 414 ...means 450 for securing the repair graft to the wall 2 during repair of the **aneurysm** will be described in connection with Fig. 24. The insertion means 450 preferably comprises a...

...fastener cartridge 460 is a hollow housing, as shown in Fig. 23, preferably formed of **injection molding** HDPE or Liquid Crystal, manufactured by the RTP Co. of MN. The penetration means 420...

10/5,K/7 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

00389899 **Image available**

METHOD AND DEVICE FOR ENHANCING VESSEL OCCLUSION

Patent Applicant/Assignee:

RADIOTHERAPEUTICS CORPORATION,

Inventor(s):

PALERMO Thomas,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9730642 A1 19970828

Application: WO 97US2663 19970221 (PCT/WO US9702663)

Priority Application: US 96605765 19960222

Designated States: AU CA JP KR AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: **A61B-017/36**

Publication Language: English

English Abstract

Body lumens such as blood vessels are selectively occluded by applying radiofrequency voltage to a vaso-occlusive coil (100) at the target site (TS) and generating a thermal reaction to induce fibrogenic occlusion of the blood vessel (BV) around the vaso-occlusive coil. The radiofrequency current is usually sufficient to induce thermal damage to the luminal wall and to coagulate the surrounding blood, thereby initiating clotting

and subsequent fibrosis to permanently occlude the lumen. The invention also includes a method for endoluminally deploying the vaso-occlusive coil and preventing migration of the coil from the target site.

Detailed Description
... require a higher rate of energy transfer due to a larger surface area, The vaso- **occlusive** wire generally takes the form of a coil, and may be formed by wrappings or...

...formed so that it adopts a convoluted configuration in a relaxed condition, Alternatively, the vaso- **occlusive** device may be formed from a flexible pre-shaped **polymer** tube or rod that is doped with electrically conducting material so that the rod is...

...heat treatment, or by shaping the device as it is extruded, before cooling, or by **injection molding** , Referring now to Figs. 1-3, a lumen **occlusion** system 2 according to the present invention comprises a shaft in the form of a...

10/5,K/8 (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00357833 **Image available**
ENDOVASCULAR SYSTEM FOR ARRESTING THE HEART
Patent Applicant/Assignee:
HEARTPORT INC,
Inventor(s):
VALLEY Kirsten L,
SNOW David W,
CORVI Timothy C,
DONLON Brian S,
BOYD Stephen W,
FAN Sylvia W,
ROTH Alex T,
PETERS William S,
MUELLER Richard J Jr,
GIFFORD Hanson S III,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9640347 A1 19961219
Application: WO 96US8078 19960530 (PCT/WO US9608078)
Priority Application: US 95486216 19950607
Designated States: AU CA JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: **A61M-029/00**
Publication Language: English

English Abstract
Devices and methods are provided for temporarily inducing cardio-plegia arrest in the heart of a patient, and for establishing cardiopulmonary bypass in order to facilitate surgical procedures onthe heart and its related blood vessels. Specifically, a catheterbased system is provided for isolating the heart and coronary blood vessels of a patient from the remainder of the arterial system(850), and for infusing a cardio-plegia agent into the patient's coronary arteries to induce cardio-plegia arrest in the heart. The system includes an endo-aortic partitioning catheter

(10) having an expandable balloon (11, 161) at its distal end, which is expanded within the ascending aorta (12, 157) to occlude the aortic lumen between the coronary ostia and the brachio-cephalic artery. Means for centering the catheter tip (330) within the ascending aorta include specially curved shaft configurations (1600), eccentric (710) or shaped (792) occlusion balloons (161, 350), and a steerable catheter tip (145) which may be used separately or in combination. The shaft of the catheter may have a coaxial (106) or multilumen (602) construction.

Detailed Description

... little concern about causing trauma to the aortic wall or dislodging any calcifications or other **emboli** from the aortic wall as the catheter passes. When the catheter 160 is in the a tube 902 of a resilient, high-tack **polymer** , preferably an extrudable or **injection moldable** thermoplastic elastomer, such as a thermoplastic polyurethane with a hardness in the range of 70...

```
Set     Items   Description
S1      31217   EMBOL? OR ANEURYSM? ? OR OCCLUS? OR OCCLUD? OR VASOOCCLUS?
             OR VASOOCCLUD?
S2      50428   INJECTION(2N)(MOLD???? OR MOULD????)
S3     346564   POLYMER??
S4        225   S1 AND S2 AND S3 AND IC=(A61B OR A61M)
S5        158   S2(5N)S3 AND S1
S6          9   (S2(5N)S3)(S)S1
S7         57   S5 AND IC=(A61M OR A61B)
S8          9   S1(S)S2(S)S3 AND IC=(A61M OR A61B)
S9          9   IDPAT (sorted in duplicate/non-duplicate order)
S10         8   IDPAT (primary/non-duplicate records only)
? show files
File 348:EUROPEAN PATENTS 1978-2003/Apr W04
         (c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030508,UT=20030501
         (c) 2003 WIPO/Univentio
```